

Conclusions

- **Diethyl sulfate** is used as an ethylating agent and chemical intermediate. According to LLNA data, it would be classified as a moderate sensitizer (ICCVAM 2011).
- **Methyl methanesulfonate** is an alkylating agent that would be classified as a moderate sensitizer according to LLNA data (ICCVAM 2011).
- **Dimethyl sulfate** is a methylating agent used in the manufacture of dyes and perfumes. According to LLNA data, it would be classified as a strong sensitizer (ICCVAM 2011).
- These compounds were largely inactive across the LLNA and were therefore incorrectly predicted as nonsensitizers. The chemicals are structurally similar and incorporating molecular descriptors may assist in identifying sensitizers.

	Nonsensitizer	Sensitizer	Classification Error
Nonsensitizer	20	4	0.17
Sensitizer	8	28	0.22